



Staff Report

RESOLUTION APPROVING PLANS AND SPECIFICATIONS, AUTHORIZING ADVERTISEMENT FOR SEALED BIDS, APPROVING AWARD OF CONTRACT TO THE LOWEST RESPONSIBLE BIDDER, APPROVING A CONSTRUCTION CONTINGENCY NOT TO EXCEED TEN PERCENT OF THE CONTRACT COST, AND AUTHORIZING THE CITY MANAGER TO EXECUTE A CONTRACT FOR CORONET BOULEVARD/LYON AVENUE STORM DRAIN REPAIR PROJECT, CITY CONTRACT NUMBER 473

Honorable Mayor and Council Members:

Summary

Council is requested to approve advertisement and award of a construction contract for City Contract Number 473 to the lowest responsible bidder to remove and replace approximately 550 linear feet of rusted corrugated metal pipe on Coronet Boulevard and Lyon Avenue. Because it is urgent that the City complete this unforeseen repair work before the full force of the winter season, staff has advertised the work and expects to have opened sealed bids on September 12, 2005. The Notice Inviting Sealed Bids specified that award of the contract would be dependent on future City Council approval.

Background

On July 19, 2005 Public Works received a complaint that a sink hole was developing at the intersection of Coronet Boulevard and Lyon Avenue. After excavating around the sink hole, the crew found that a large void had developed in the subsurface soil underneath the pavement. The void was created by storm water draining from the bottom of the rusted corrugated metal storm drain pipe and washing away the soil underneath the pavement. The metal storm drain pipes in this area were installed with the original subdivision and are reaching the end of their useful lives. Public Works maintenance crew replaced the failed pipe section, backfilled the void, and patched the pavement.

Further investigation found that the bottom of approximately 550 linear feet of adjacent existing metal pipe under Coronet Boulevard and Lyon Avenue are rusted out and there are numerous 2-foot-deep voids developing underneath the pipes all along this stretch. We believe the winter rains may produce more sinkholes in the pavement. This would result in dangerous conditions that would be difficult to repair when the drain pipes are flowing with rainwater. It is therefore crucial that the City replace all these rusted pipes and backfill the voids as soon as possible.

Failing corrugated metal storm drain pipe is of potential concern throughout much of the City because the original infrastructure is at, or beyond, its expected life. It is specified that

replacement pipe be of rigid HDPE plastic which does not react to soil or rainwater and so will not rust out.

Last year, staff launched into an aggressive storm drain pipe rehabilitation program similar to the sewer rehabilitation program that the City began 14 years ago. Staff is working with Schaff and Wheeler, our storm drain design consultant, to prioritize the investigation. The Public Works crew has started video inspection of storm pipes in the Country Club neighborhood. Our intent is to locate, repair or replace the worst failures as soon as possible to prevent damage to property and pavement. The videoing will facilitate the development of the storm drain master plan update. Staff has recently received proposals from six consultants for this master plan update and is currently reviewing their qualifications.

Discussion

The City requires a construction contract to complete this work because of the size of the project. Public Works and Finance staff discussed appropriate means to expedite contracting this project and decided that it would be acceptable to advertise the work prior to Council approval provided the Notice to Invite Sealed Bid clearly stated that award would depend on Council's future approval. The City Clerk advertised the contract on August 27, 2005 with a bid opening date of September 12, 2005.

Staff has prepared plans and specifications to remove and replace approximately 550 linear feet of existing corrugated metal pipe for Council approval. This includes 400 linear feet of rusted out corrugated metal pipe on Coronet Boulevard and another 150 linear feet on Lyon. The contractor will be required to maintain two-way traffic at all times to minimize the impact to the neighborhood traffic. All the voids found around the storm drain line will be backfilled and compacted. Construction is anticipated beginning in late September and work should be substantially completed by early December.

A pavement study made in this area determined that an asphalt overlay is required. It is anticipated that the trench work and the use of heavy equipment will further deteriorate the pavement condition. Because the storm drain project will be completed in December and it is not desirable to overlay in the rainy season, staff recommends that this area be included in the next pavement rehabilitation project. The estimated overlay cost is \$90,000.

As a result of the storm drain pipes installation causing further deterioration of the roadway, staff recommends allocation of \$60,000 from the Storm Drainage Enterprise Fund for the next pavement overlay project in the area.

Fiscal Impact

The engineer's estimate for the construction contract work is \$180,000. Staff requests that Council approve a 10 percent construction contingency. Staff also requests that Council approve allocation of \$60,000 from the Storm Drainage Enterprise Fund for the future pavement rehabilitation project in the area. Funding for this work will be obtained from FY 2006 Storm Drainage Enterprise Fund account 525-4315-6045-9030 (Other Storm Drain Capital Improvement Projects).

Public Contact

Public contact consisted of posting the City Council agenda.

Recommendation

Staff recommends that the City Council take the following actions for City Contract Number 473, Coronet Boulevard/Lyon Avenue Storm Drain Repair Project:

1. Approve the construction plans and specifications;
2. Authorize the advertisement made on August 27, 2005;
3. Approve award of contract to the lowest responsible bidder;
4. Approve a construction contingency equal to 10 percent of the contract price;
5. Authorize the City Manager to execute a contract to the lowest responsible bidder.
6. Allocate \$60,000 from the Storm Drainage Enterprise Fund for the next pavement rehabilitation project in this area.

Alternatives

1. Refer back to staff for further information.
2. Deny the request.

Attachments

- A. Resolution
- B. Pictures of Sink Hole

Respectfully submitted,

Gilbert Yau, P.E.
Senior Civil Engineer

Raymond E. Davis, III, PE, PTOE
Director of Public Works

Jack R. Crist
Interim City Manager

RESOLUTION NO. ____

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BELMONT APPROVING
PLANS AND SPECIFICATIONS, AUTHORIZING ADVERTISEMENT FOR SEALED
BIDS, APPROVING AWARD OF CONTRACT TO THE LOWEST RESPONSIBLE
BIDDER, APPROVING A CONSTRUCTION CONTINGENCY NOT TO EXCEED TEN
PERCENT OF THE CONTRACT COST, AND AUTHORIZING THE CITY MANAGER
TO EXECUTE A CONTRACT FOR CORONET BOULEVARD/LYON AVENUE
STORM DRAIN REPAIR PROJECT,
CITY CONTRACT NUMBER 473**

WHEREAS, unforeseen failure of corrugated metal storm drain pipe in Coronet Boulevard and Lyon Avenue has resulted in subsurface voids beneath these City streets; and,

WHEREAS, the City desires to repair these failures as soon as feasible to prevent further damage from winter storms; and,

WHEREAS, the Department of Public Works has prepared plans and specifications for the Coronet Boulevard/Lyon Avenue Storm Drain Repair Project to repair these failures; and,

WHEREAS, the project was advertised on August 27, 2005 prior to Council approval because of the urgent nature of the project; and,

WHEREAS, Storm Drainage Capital Improvement Program have been budgeted in Fiscal Year 2006 for repair and replacement of deteriorating storm drain pipes; and,

WHEREAS, the trench work and the use of heavy equipments will further deteriorate the roadway condition necessitating pavement overlay.

NOW, THEREFORE, BE IT RESOLVED, that:

1. The City Council approves City Contract Number 473 plans and specifications.
2. The City Council authorizes advertisement made on August 27, 2005.
3. The City Council approves award of contract to the lowest responsible bidder.
4. The City Council approves a construction contingency for an amount equal to 10 percent of the construction contract.
5. The City Council authorizes the City Manager to execute a contract with the lowest responsible bidder.
6. Funding shall be from the FY 2006 budget, project account 525-4315-6045-9030.
7. The City will allocate \$60,000 from the Storm Drainage Enterprise Fund for the next pavement rehabilitation project in this area.

* * * * *

I hereby certify that the foregoing Resolution was duly and regularly passed and adopted by the City Council of the City of Belmont at a regular meeting thereof held on September 13, 2005.

AYES, COUNCILMEMBER(S): _____

NOES, COUNCILMEMBER(S): _____

ABSTAIN, COUNCILMEMBER(S) _____

ABSENT, COUNCILMEMBER(S): _____

City Clerk of the City of Belmont

APPROVED:

Mayor of the City of Belmont

Sink Hole on Coronet Avenue



